Expanded Notation

1 Write each of these numbers using expanded notation.

a) 57 b) 345 c) 74

d) 737 e) 3287 f) 432

g) 38 h) 4125 i) 8698

j) 21 065 k) 72 662 l) 54 636

2 Write the simplest numeral for each of the following

a) (3 x 1000) + (2 x 100) + (9 x 10) + (8 x 1)

b) (4 x 100 00) + (7 x 10 000) + (6 x 1000) + (8 x 100) + (9 x 10) + (5 x 1)

c) (5 x 10 000) + (4 x 1000) + (2 x 100) + (6 x 1)

d) (8 x 1 000 000) + (3 x 100 000) + (7 x 1000) + (2 x 100)

3 Numerals can be expanded using powers of ten

For example 65 837 = $(6 \times 10^4) + (5 \times 10^3) + (8 \times 10^2) + (3 \times 10) + (7 \times 1)$

Expand these numerals the same way

a) 3689 b) 73 689 c) 21 496

4 Write the simplest numeral for each of these

a) $(7 \times 10^3) + (3 \times 10^2) + (8 \times 10) + (6 \times 1)$

b) $(4 \times 10^4) + (5 \times 10^3) + (5 \times 10^2) + (3 \times 10) + (9 \times 1)$

c) $(7 \times 10^5) + (3 \times 10^4) + (7 \times 10^3) + (2 \times 10^2) + (7 \times 10) + (4 \times 1)$